|    |          | olica<br>600, |                           | on/Control No. |             | Applicant(s)/Patent under Reexamination AKINS, RANDY D. |              |  |   |                  |  |
|----|----------|---------------|---------------------------|----------------|-------------|---|--------------|--|---|------------------|--|
|    |          |               |                           |                | min<br>e Fa |   | hiyar        |  |   | Art Unit<br>2629 |  |
| [4 | Rejected | _             | (Through num<br>Cancelled | ieral)         | ] [         | N   | Non-Elected  |  | A | Appeal           |  |
| =  | Allowed  | ÷             | Restricted                | 1              |             | ı   | Interference |  | 0 | Objected         |  |

|       |          |          |                    |              |           |          | ļ          |                                     | ш                   |          |          |          | -       |          |              |           | L            |          |           |                    | _        |          |          | ı          |          |                 |               |          |          |          |                |          |   |
|-------|----------|----------|--------------------|--------------|-----------|----------|------------|-------------------------------------|---------------------|----------|----------|----------|---------|----------|--------------|-----------|--------------|----------|-----------|--------------------|----------|----------|----------|------------|----------|-----------------|---------------|----------|----------|----------|----------------|----------|---|
| Cla   | aim      |          |                    |              |           | Date     | e          |                                     |                     |          | C        | aim      |         |          |              |           | Date         | :        |           |                    |          |          | Cla      | aim        |          | _               |               |          | Date     | -        |                |          | _ |
| Final | Original | 3/15/07  |                    |              |           |          |            |                                     |                     |          | Finat    | Original |         |          |              |           |              |          |           |                    |          | i        | Final    | Original   |          |                 |               |          |          |          |                |          |   |
|       | -        |          | $\dashv$           | +            |           |          | $\vdash$   |                                     | $\vdash$            | $\dashv$ |          | 51       | +-      | -        | Н            | $\dashv$  | $\dashv$     | +        | $\dashv$  | $\dashv$           | $\dashv$ | $\vdash$ | $\dashv$ | 101        | _        | -               |               |          |          |          | -              | -        | _ |
|       | 2-       |          | $\dashv$           | $\dashv$     |           | _        | ┢          |                                     | $\vdash$            | $\dashv$ | -        | 52       | +       | $\vdash$ |              |           | $\dashv$     | 寸        | -         | +                  | $\dashv$ | $\vdash$ | $\neg$   | 102        | $\neg$   | _               | $\vdash$      | -        | $\neg$   | -        | $\vdash$       |          | - |
|       | 3        | _        | -                  | 寸            | $\exists$ |          | $\vdash$   |                                     | $\vdash$            | $\dashv$ |          | 53       | +       | H        | Н            | $\neg$    | _            | $\dashv$ | $\dashv$  | $\dashv$           | $\dashv$ | $\vdash$ |          | 103        | $\neg$   | $\vdash$        |               |          |          |          | $\dashv$       | _        | _ |
| 1     | 4        | =        | $\top$             | $\dashv$     |           |          |            |                                     | Н                   | $\dashv$ |          | 54       | $\top$  | $\vdash$ | Н            | $\neg$    | $\neg$       | 寸        | T         | _                  | ヿ        | $\vdash$ |          | 104        |          |                 |               |          |          |          |                | 1        | _ |
| 2     | 5        | =        | $\top$             | $\dashv$     |           |          | •          | T                                   | $\vdash$            | $\dashv$ |          | 55       | $\top$  |          | Н            |           | _            | 寸        | $\neg$    | ╅                  | ┪        | F        |          | 105        |          |                 |               |          |          | $\neg$   |                | 1        | _ |
| 3     | 6        | =        |                    | 7            |           |          |            |                                     | П                   | $\neg$   |          | 56       | 1       | $\vdash$ |              |           |              | ヿ        | ┪         | $\top$             | 7        |          |          | 106        |          |                 |               |          |          |          |                |          | _ |
| 4     | 7        | =        |                    |              |           |          |            |                                     | П                   | $\neg$   |          | 57       |         |          |              |           |              | 寸        |           | T                  |          |          |          | 107        |          |                 |               |          |          |          |                | T        | _ |
| 5     | 8        | =        |                    | T            |           |          |            |                                     | П                   | $\neg$   |          | 58       |         | Γ        |              |           |              | ヿ        |           | $\neg$             |          |          |          | 108        |          |                 |               |          |          |          |                | Î        | Т |
|       | 9_       |          |                    |              |           |          |            |                                     |                     |          |          | 59       |         |          |              |           |              | $\Box$   |           | T                  |          |          |          | 109        |          |                 |               |          |          |          |                |          |   |
|       | 10       |          |                    |              |           |          |            |                                     | Ш                   |          |          | 60       |         |          |              |           |              |          |           |                    |          |          |          | 110        |          |                 |               |          |          |          |                |          |   |
|       | 11       | _        |                    | $\perp$      |           |          |            | $oxed{\Box}$                        | Ш                   | _        |          | 61       | $\perp$ |          | $\Box$       |           | [            |          | _[        | $\perp$            | $\Box$   | L        |          | 111        |          |                 | $\Box$        | Ш        |          | ]        |                | $\bot$   | _ |
|       | 12       |          | $\sqcup$           | $\perp$      | _         |          | L_         | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | Ш                   | $\Box$   | L.       | 62       | 1       | _        |              |           | _            | _        | $\perp$   |                    | $\Box$   | L        |          | 112        |          |                 |               | Ш        |          |          |                |          | _ |
|       | 13       | _        |                    | _            |           |          |            | Ш                                   | Щ                   | _        | <u> </u> | 63       | 1       |          | Ш            |           | _            | _        | _         | _                  | _        | L        |          | 113        |          |                 |               |          |          |          |                | _        | _ |
|       | 14       | <u> </u> | $\perp \downarrow$ | $\downarrow$ | _         |          | _          | $\vdash$                            | Щ                   | _        | <u> </u> | 64       | $\bot$  | _        |              | $\square$ |              | _        | _         | _                  | _        | L        |          | 114        |          | Ш               |               | Ш        |          |          | Щ              | _        | _ |
|       | 15       | <u> </u> | $\vdash$           | 4            | _         |          | <u> </u>   | $\vdash$                            | $\sqcup$            | 4        | <u> </u> | 65       | 1       | $\vdash$ | $\vdash$     |           | _            | _        | _         | 4                  | $\dashv$ | $\perp$  |          | 115        | _        |                 |               | Ш        |          | _        | Ш              | _        | _ |
|       | 16       |          | _                  | 4            |           |          |            |                                     | $\vdash$            |          |          | 66       |         | <u> </u> | <u> </u>     |           |              |          |           |                    | -        | <br> -   |          | 116        |          |                 |               |          |          |          |                | _        | _ |
|       | 17       | <u> </u> |                    | $\dashv$     |           |          |            |                                     | $\sqcup$            | _        | <u> </u> | 67       | +       | ├_       | $\vdash$     | $\Box$    | $\dashv$     | _        | $\dashv$  | +                  | 4        | $\vdash$ |          | 117        | _        |                 |               | _        | -        |          |                |          | _ |
|       | 18       | _        | -                  | +            |           |          | _          | <u> </u>                            | $\vdash \vdash$     |          | <u> </u> | 68       | +       | ⊢        | _            |           | <del> </del> | -        | -         | +                  | 4        | -        |          | 118        | _        |                 |               | Н        |          |          |                |          | _ |
|       | 19       |          | -                  | -            |           |          |            | -                                   |                     |          | -        | 69       | -       | -⊦       | <del> </del> |           |              |          | -         |                    | -        | ⊢        |          | 119        | _        |                 |               | Н        |          |          | $\vdash$       |          | _ |
|       | 20       | -        | $\dashv$           | +            | _         |          | _          | H                                   | Н                   | -        | <u> </u> | 70       | ┿       | ⊢        | $\vdash$     | -         |              | $\dashv$ | $\dashv$  | +                  | 4        | $\vdash$ |          | 120        |          |                 |               |          | $\dashv$ | _        | -              | -        | _ |
|       | 21       |          |                    | +            | -         |          | -          | H                                   | Н                   | -1       | $\vdash$ | 71<br>72 | +       | ⊢        | H            | -         | $\dashv$     | $\dashv$ | $\dashv$  | +                  | $\dashv$ | $\vdash$ | _        | 121<br>122 |          | $\vdash$        |               |          |          | $\dashv$ | $\vdash$       | -        | _ |
|       | 23       |          | -+                 | +            |           | -        | -          | -                                   | Н                   | -        |          | 73       | ╁       | ⊢        | $\vdash$     | _         | -            | $\dashv$ | -         | +                  | $\dashv$ | ⊢        |          | 123        | -        |                 | _             |          |          | -        |                | -        | _ |
|       | 24       | -        |                    | +            | -         |          | -          | H                                   | H                   | $\dashv$ | -        | 74       | +-      | ┝        | H            |           |              | $\dashv$ | $\dashv$  | $\dashv$           | $\dashv$ | $\vdash$ |          | 124        | -        |                 |               |          |          | -        |                |          | _ |
|       | 25       | $\vdash$ | $\dashv$           | +            |           |          | _          | $\vdash$                            | Н                   | $\dashv$ |          | 75       | +       | $\vdash$ | $\vdash$     |           | $\dashv$     | $\dashv$ | $\dashv$  | +                  | $\dashv$ | ⊢        | $\dashv$ | 125        | _        | $\vdash$        |               |          |          | $\dashv$ | Н              |          | _ |
|       | 26       | $\vdash$ |                    | $^{+}$       | -         |          | -          | $\vdash$                            | H                   | $\dashv$ |          | 76       | +       | $\vdash$ |              |           | <del></del>  | $\dashv$ | $\dashv$  | $\dashv$           | $\dashv$ | $\vdash$ |          | 126        | _        | $\vdash$        |               |          |          | $\neg$   | $\vdash$       | -1       | _ |
| -     | 27       | $\vdash$ | $\vdash$           | +            |           |          |            |                                     | H                   | _        |          | 77       | +       | H        | H            |           | _            | 寸        | $\dashv$  | 1                  | $\dashv$ | <u> </u> |          | 127        |          |                 |               |          |          |          | Н              |          | _ |
|       | 28       | ┢        |                    | 寸            | _         |          |            |                                     | Н                   | $\neg$   |          | 78       | $\top$  | $\vdash$ | Н            | $\neg$    | _            | 寸        | 一         | $\top$             | ┪        | -        |          | 128        |          | _               |               |          |          |          | П              | 一        | _ |
|       | 29       | $\vdash$ |                    | $\dashv$     | ┪         | -        |            |                                     | Н                   | $\neg$   |          | 79       | +       | T        | Н            |           | 寸            | 寸        | ╅         | $\top$             | ┪        | H        |          | 129        | $\neg$   |                 |               |          |          | $\neg$   | П              | _        | _ |
|       | 30       | T        |                    | T            |           |          |            |                                     | П                   | $\neg$   |          | 80       | Ť       | T        |              |           | T            | 寸        | 1         | T                  | ┪        | F        |          | 130        | $\neg$   |                 |               |          |          |          |                |          | _ |
|       | 31       |          | $\Box$             | T            |           |          |            |                                     | П                   | $\neg$   |          | 81       |         |          |              |           |              |          | $\exists$ | T                  | ٦        |          |          | 131        |          |                 |               |          | -        | -        |                |          | _ |
|       | 32       |          |                    |              |           |          |            |                                     |                     |          |          | 82       | $\perp$ |          |              |           |              | $\Box$   |           | 丁                  |          |          |          | 132        |          |                 |               |          |          |          |                | $\Box$ † | _ |
|       | 33       |          |                    |              |           |          |            |                                     |                     |          |          | 83       |         |          |              |           |              | $\Box$   |           |                    |          |          |          | 133        |          |                 |               |          |          |          |                |          |   |
|       | 34       |          |                    | I            |           |          |            |                                     |                     |          |          | 84       |         |          |              |           |              |          |           |                    |          |          |          | 134        |          |                 |               |          |          |          |                |          |   |
|       | 35       |          |                    | Ţ            |           |          |            |                                     |                     |          |          | 85       |         |          |              |           |              |          |           | $oldsymbol{\perp}$ |          |          |          | 135        |          |                 |               |          |          |          |                |          |   |
|       | 36       | <u> </u> |                    | ⅃            |           |          |            |                                     | Ш                   |          |          | 86       |         |          |              |           | $\Box$       | $\Box$   | $\Box$    |                    | $\Box$   |          |          | 136        |          |                 |               |          |          |          |                |          |   |
|       | 37       | L        | $\perp$            | $\perp$      | _         | $\Box$   |            | Ш                                   | Ш                   | $\Box$   | <u> </u> | 87       | _       | $\perp$  | Ш            | Ц         | [            | _[       | _[        | _                  | $\Box$   | L        |          | 137        |          |                 |               | Ш        | _]       | ]        |                | [        |   |
|       | 38       | _        | 4                  | 4            |           |          |            |                                     | $\sqcup$            | _        | <u> </u> | 88       | +-      | _        |              |           |              | _        | _         | _                  |          | _        |          | 138        |          |                 | Щ             | Ш        |          | _        | Ш              | _        | _ |
|       | 39       | L        | $\vdash$           | 4            | _         |          | <u> </u>   | <u> </u>                            | Щ                   | _        |          | 89       | 1       | -        | Ш            |           |              | _        | _         | _                  | _        | L        |          | 139        | _        | $\Box$          | $\sqsubseteq$ | Ш        |          | _        | Щ              | _        | _ |
|       | 40       | _        | -                  | 4            | _         |          | L          | _                                   | $\vdash \downarrow$ | _        | <u> </u> | 90       | +       | ऻ_       | Щ            | _         |              |          |           | _                  | _        | L        | _        | 140        |          |                 | _             | $\vdash$ | _        | _        | Ш              | _        | _ |
|       | 41       | <u> </u> | -+                 | +            | _         |          | <u> </u>   |                                     | $\vdash$            |          | <u> </u> | 91       | +       | <b>—</b> | $\sqcup$     | $\square$ | <b></b> ∤    | -        | $\dashv$  | +                  | 4        | $\vdash$ |          | 141        | _        |                 | <u> </u>      | Щ        |          |          | $\sqcup$       |          | _ |
|       | 42       | -        | +                  | 4            | -         |          | <u> </u>   | <u> </u>                            | $\vdash \vdash$     | $\dashv$ |          | 92       |         | ├-       | Н            |           |              | -        | $\dashv$  | +                  | $\dashv$ | -        |          | 142        | _        | $\vdash \vdash$ | <u> </u>      | Щ        |          |          | -              |          |   |
|       | 43<br>44 | H        | -                  | +            | -         | _        | <u> </u>   | -                                   | $\vdash$            | -        | ļ        | 93       | +-      | ⊢        | $\vdash$     |           | -+           | -        | $\dashv$  | +                  | $\dashv$ | $\vdash$ |          | 143        | _        | $\dashv$        | _             | Н        |          | $\dashv$ | $\vdash\vdash$ | $\dashv$ | _ |
|       | 45       | $\vdash$ | +                  | +            |           | -        |            | <del> </del>                        | $\vdash$            | $\dashv$ | -        | 94<br>95 | +       | $\vdash$ | $\vdash$     | $\dashv$  |              | $\dashv$ | $\dashv$  | +                  | $\dashv$ | -        |          | 144        | _        | $\vdash$        | $\vdash$      | Н        |          |          | $\vdash$       | $\dashv$ | _ |
|       | 46       | -        |                    | ┽            | -         |          | -          | -                                   | $\vdash$            | -        | _        | 96       |         | ├        | Н            | -         | $\dashv$     | $\dashv$ | $\dashv$  | +                  | $\dashv$ | -        | -        | 145        | _        | $\vdash$        |               |          | $\vdash$ | $\dashv$ | -              | $\dashv$ | _ |
|       | 47       | $\vdash$ | +                  | +            | $\dashv$  | $\dashv$ | <u> — </u> |                                     | ⊢                   | $\dashv$ | -        | 97       | +       | $\vdash$ | H            | $\dashv$  |              | -        | $\dashv$  | +                  | $\dashv$ | -        | -        | 146<br>147 |          | -               |               | <u> </u> |          |          | $\vdash$       |          | _ |
|       | 48       | $\vdash$ | $\dashv$           | +            | $\dashv$  | $\vdash$ | $\vdash$   | -                                   | $\vdash$            | $\dashv$ | -        | 98       |         | $\vdash$ | $\vdash$     | $\dashv$  | -            | $\dashv$ | $\dashv$  | $\dashv$           | $\dashv$ | $\vdash$ | -        | 148        | $\dashv$ | $\dashv$        | $\vdash$      | Н        |          | -        | $\dashv$       |          | _ |
|       | 49       | _        | +                  | $\dashv$     | $\dashv$  | -        | —          |                                     | $\vdash$            | $\dashv$ |          | 99       |         | -        | H            | -         | $\dashv$     | $\dashv$ | $\dashv$  | +                  | $\dashv$ | $\vdash$ |          | 149        |          | $\vdash$        | -             | Н        | -        | $\dashv$ | $\vdash$       | $\dashv$ | _ |
|       | 50       |          | +                  | +            | $\dashv$  | -        |            | -                                   | $\vdash$            | $\dashv$ | <u> </u> | 100      | +       |          | Н            | -         |              | ᅱ        | -         | +                  | $\dashv$ | $\vdash$ |          | 150        | _        | Н               |               | $\vdash$ | $\dashv$ | -        | -              | $\dashv$ | _ |
|       |          |          |                    | - 1          | - 1       |          | 1          |                                     |                     |          |          | 110      | , ,     |          |              |           | - 1          |          | - 1       | 1                  | - 1      | - 1      |          | 100        |          |                 |               |          |          | 1        |                |          |   |